

### ABSTRACT OF THE DISCLOSURE

An electromagnetic fuel injector of an internal combustion engine having a plurality of electromagnetic coils for valve driving wound separately on a bobbin in an axial direction. The bobbin has a step difference of the outer diameter so that the bobbin outer diameter in the region with the second coil to be wound thereon is smaller than the bobbin outer diameter in the region with the first coil to be wound thereon, and the bobbin inner diameter has a step difference in that the bobbin inner diameter in the region with the first coil to be wound thereon is made large partially so as to secure an annular space to interpose a seal ring therein.